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(54) METHOD FOR OXIDIZING CO INTO CO₂ AND PRODUCTION OF HYDROGEN-CONTAINING GAS FOR FUEL CELL

(57)Abstract:

PURPOSE: To efficiently obtain a hydrogen-containing gas for a fuel cell, by catalytically oxidizing a CO-containing reformed gas consisting essentially of hydrogen obtained by methanol reforming reaction, selectively oxidizing contained CO into CO₂ and removing.

CONSTITUTION: This reformed gas which is a CO-containing reformed gas obtained by methanol reforming reaction, consists essentially of hydrogen and contains ≤ 3 wt.% of at least one impurity selected from methanol, formic acid and formaldehyde is mixed with an oxygen-containing gas. The mixed gas is brought into contact with a noble metal to selectively oxidize CO into CO₂ and to selectively oxidize and remove CO.